

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB 03/03553

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 A23K1/16 A23K1/18 A01K61/00

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 A23K A01K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, BIOSIS, CAB Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 95 18527 A (AGRICULTURAL GENETICS CO ; FISHER CHRISTINA MARY LOUISE (GB); FLETCHER) 13 July 1995 (1995-07-13)  page 3, paragraph 2 - paragraph 3 page 4, paragraph 3 - page 5, last paragraph examples 3-7 claims 1,2,5,9,10	1-4,12, 22-25, 31,32, 36-38
X	US 5 739 006 A (ABE TOSHIO ET AL) 14 April 1998 (1998-04-14)  column 1, line 45 - column 2, line 50 examples 2-6	1,12, 22-25, 31,36-38

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

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\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search

12 November 2003

Date of mailing of the international search report

25/11/2003

Name and mailing address of the ISA

European Patent Office, P.O. Box 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Dekeirel, M

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	R. WOUTERS ET AL.: "Feeding enriched Artemia biomass to Penaeus vannamei broodstock: its effect on reproductive performance and larval quality" JOURNAL OF SHELLFISH RESEARCH., vol. 18, no. 2, 1999, pages 651-656, XP008024499 NATIONAL SHELLFISHERIES ASSOCIATION., US ISSN: 0730-8000 the whole document	1-4, 6, 12, 22-24, 36-38
X	WO 00 66665 A (BASF AG ;BOHN HERIBERT (DE); AUWETER HELMUT (DE); LUEDDECKE ERIK ( ) 9 November 2000 (2000-11-09)  page 4, line 30 -page 5, line 32 page 7, line 39 - line 43 example 1 claims 1-13	1-4, 12, 18, 22-24, 32, 36-38
X	WO 02 00908 A (NOVOZYMES AS ;NIELSEN PER MUNK (DK)) 3 January 2002 (2002-01-03) page 14, line 21 -page 15, line 26 claims 1-5, 14-17, 25, 26, 33-36, 40-46	1, 22-24, 36-38
X	WO 00 01249 A (BREIVIK HARALD ;NORSK HYDRO AS (NO); SANNA LOLA IRENE (NO)) 13 January 2000 (2000-01-13)  examples 3, 4, 6, 7 figures 3-5 claims 1-16	1-4, 6, 12, 22-24, 29, 32, 36-38
X	PATENT ABSTRACTS OF JAPAN vol. 014, no. 555 (C-0786), 10 December 1990 (1990-12-10) -& JP 02 238855 A (SANRAKU INC), 21 September 1990 (1990-09-21) abstract	1, 6, 22-24, 32, 36-38
X	WO 01 67896 A (PFEIFFER ANGELIKA MARIA ;SCHNEIDER JOACHIM U (DE); BASF AG (DE); B) 20 September 2001 (2001-09-20) page 2, line 21 -page 3, line 31 page 5, line 27 - line 34 page 6, line 10 -page 8, line 44 examples 8, 9	1-4, 12, 14, 18, 21, 36-38
X	WO 98 18345 A (BEDFORD MICHAEL RICHARD ;FINNFEEDS INT LTD (GB); ARANDA JULIAN OSC) 7 May 1998 (1998-05-07) example 2	1, 12, 22-24, 32, 36-38
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International Application No.

PCT/GB 03/03553

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 313 035 A (EWOS AB) 19 November 1997 (1997-11-19)  page 4, paragraph 2 - paragraph 3 page 6, paragraph 4 example claims 1-7	1,12, 22-25, 32,36-38
X	EP 0 424 578 A (UNILEVER NV) 2 May 1991 (1991-05-02)  claims 1,8-13,27,28	1,12, 22-24, 32,36-38
X	WO 01 67887 A (JOHNSEN KRISTIAN) 20 September 2001 (2001-09-20)  claims 1-12	1-3,12, 22-24, 32,36-38
X	WO 93 14645 A (GIST BROCADES NV) 5 August 1993 (1993-08-05)  examples I-III claims 1-6,8-10	1-3,12, 22-25, 32,36-38
X	WO 96 23420 A (MOLDT PETER ;NEUROSEARCH AS (DK)) 8 August 1996 (1996-08-08)  the whole document	1-4,12, 18, 22-24, 32,36-38
X	WO 92 01754 A (UNILEVER PLC ;UNILEVER NV (NL)) 6 February 1992 (1992-02-06)  page 3, last paragraph -page 5, paragraph 3 page 8, paragraph 3 -page 9, paragraph 3 claims 14-17	1,12, 22-24, 32,36-38

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No  
PCT/GB 03/03553

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9518527	A	13-07-1995	AU 1324795 A WO 9518527 A1	01-08-1995 13-07-1995
US 5739006	A	14-04-1998	WO 9324021 A1 JP 3320417 B2	09-12-1993 03-09-2002
WO 0066665	A	09-11-2000	DE 19919751 A1 AU 4551400 A CN 1125145 B DE 50000657 D1 WO 0066665 A1 EP 1173521 A1 JP 2002543263 T NO 20015238 A	09-11-2000 17-11-2000 22-10-2003 21-11-2002 09-11-2000 23-01-2002 17-12-2002 28-12-2001
WO 0200908	A	03-01-2002	AU 9367101 A CA 2421820 A1 WO 0200908 A2 NO 20031325 A US 2003185939 A1	08-01-2002 03-01-2002 03-01-2002 23-05-2003 02-10-2003
WO 0001249	A	13-01-2000	NO 983050 A AT 241284 T AU 4399999 A CA 2336272 A1 CN 1307453 T DE 69908361 D1 DK 1091657 T3 EP 1091657 A1 JP 2002519479 T WO 0001249 A1 US 6630188 B1 ZA 200007556 A	03-01-2000 15-06-2003 24-01-2000 13-01-2000 08-08-2001 03-07-2003 29-09-2003 18-04-2001 02-07-2002 13-01-2000 07-10-2003 15-03-2002
JP 02238855	A	21-09-1990	NONE	
WO 0167896	A	20-09-2001	DE 10013312 A1 DE 10049137 A1 AU 5468701 A CN 1419418 T WO 0167896 A2 EP 1272059 A2 US 2003185877 A1	20-09-2001 13-06-2002 24-09-2001 21-05-2003 20-09-2001 08-01-2003 02-10-2003
WO 9818345	A	07-05-1998	AU 5121498 A WO 9818345 A1	22-05-1998 07-05-1998
GB 2313035	A	19-11-1997	AU 2769297 A CA 2226881 A1 DE 69714943 D1 DK 839004 T3 WO 9742838 A1 EP 0839004 A1 ES 2180047 T3 JP 11509426 T NO 980131 A	05-12-1997 20-11-1997 02-10-2002 25-11-2002 20-11-1997 06-05-1998 01-02-2003 24-08-1999 16-03-1998
EP 0424578	A	02-05-1991	EP 0424578 A1	02-05-1991

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/GB 03/03553

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0424578	A	WO 9105480 A1 JP 4502404 T NO 912445 A	02-05-1991 07-05-1992 21-06-1991
WO 0167887	A 20-09-2001	NO 20001325 A AU 4289101 A CA 2406824 A1 GB 2377356 A WO 0167887 A2	17-09-2001 24-09-2001 20-09-2001 15-01-2003 20-09-2001
WO 9314645	A 05-08-1993	AT 168534 T CA 2106774 A1 DE 69319758 D1 DE 69319758 T2 DK 556883 T3 EP 0556883 A1 ES 2121926 T3 JP 6505881 T WO 9314645 A1 NO 933400 A US 6083541 A US 5716655 A US 6555148 B1	15-08-1998 25-07-1993 27-08-1998 26-11-1998 26-04-1999 25-08-1993 16-12-1998 07-07-1994 05-08-1993 17-11-1993 04-07-2000 10-02-1998 29-04-2003
WO 9623420	A 08-08-1996	AU 4715696 A CA 2211107 A1 WO 9623420 A1 EP 0812135 A1 FI 972961 A JP 10511270 T NO 973473 A NZ 301672 A	21-08-1996 08-08-1996 08-08-1996 17-12-1997 31-07-1997 04-11-1998 28-07-1997 19-12-1997
WO 9201754	A 06-02-1992	AT 148910 T CA 2087337 A1 DE 69124696 D1 DE 69124696 T2 EP 0541595 A1 ES 2099748 T3 WO 9201754 A1 JP 3238926 B2 JP 5509227 T NO 930177 A ,B, NZ 238977 A US 5453565 A	15-02-1997 21-01-1992 27-03-1997 05-06-1997 19-05-1993 01-06-1997 06-02-1992 17-12-2001 22-12-1993 19-01-1993 26-11-1996 26-09-1995